

Reflective Cracking Construction Notes

Date: January 12, 2015

Project: Reflective Cracking Indoor Phase IV

Weather:

	6:54 AM	3:54 PM
Temperature (°F):	37.0	37.0
Dew Point (°F):	24.1	36.0
Humidity (%):	59	96
Visibility (Miles):	10.0	5.0
Wind (MPH):	4.6 S	3.5 NW
Conditions:	Overcast	Light Rain

Working Hours: 7:00 AM – 4:30 PM

Sub-Contractor(s): ARA

Personnel: (1) technician (ARA)

Equipment: Hand tools

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SRA engineers and technicians constructed an environmental chamber, as shown in Figure 1, atop the test rig to completely cover the joint and surrounding areas. The environmental chamber was constructed using insulated foam panels that were cut as needed to fit and taped together to form an enclosure approximately 14 feet long, 8 feet wide, and 4 feet high. A concrete curing blanket was also placed atop the enclosure to provide additional insulation. An opening was left in the West side of the chamber to accommodate the placement of an upright radiant heater which will be used to raise the temperature of the test rig surface within the chamber and maintain favorable conditions for the placement and curing of adhesive for the surface strain gauges.

SRA and ARA personnel continued preparing the asphalt surfaces of the North and South Phase IV test items for the installation of surface strain gauges. The thermocouples were also installed near the outer edges of the North and South test items.



(a)



(b)



(c)

Figure 1. Environmental Test Chamber.